

PHENIX Preparations for Run7



Cosmic
rays with
muon
magnets
ON

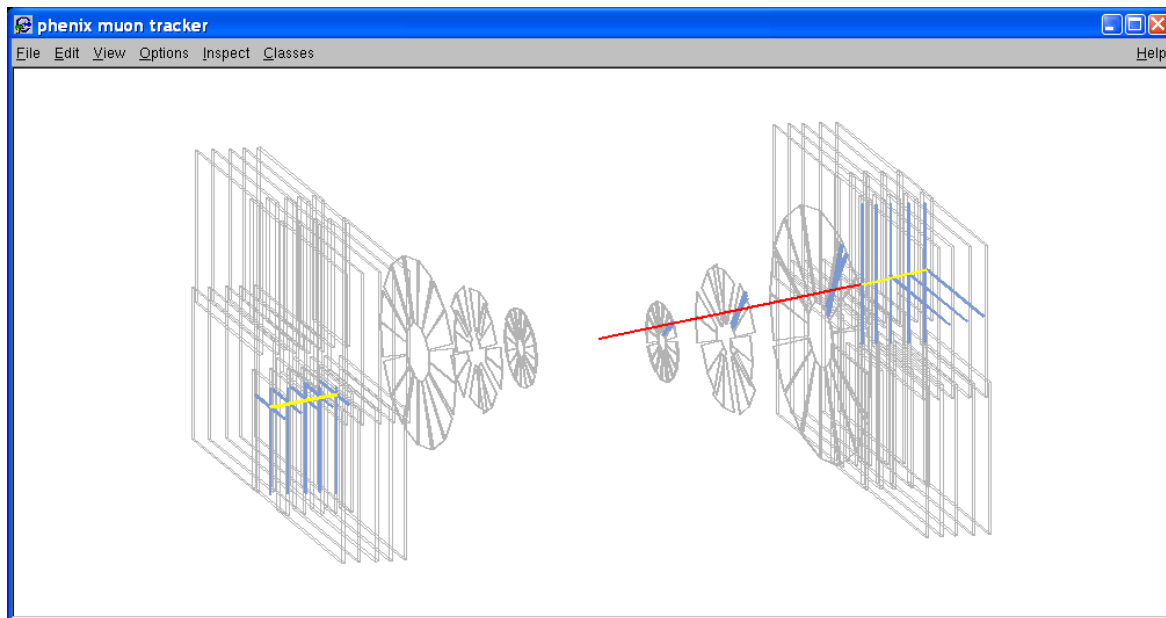
Run Coordinator
Mike Leitch (LANL)

Taking data
with cosmic
ray triggers
and all
subsystems
read out

Muon magnets
on

DAQ Ready!

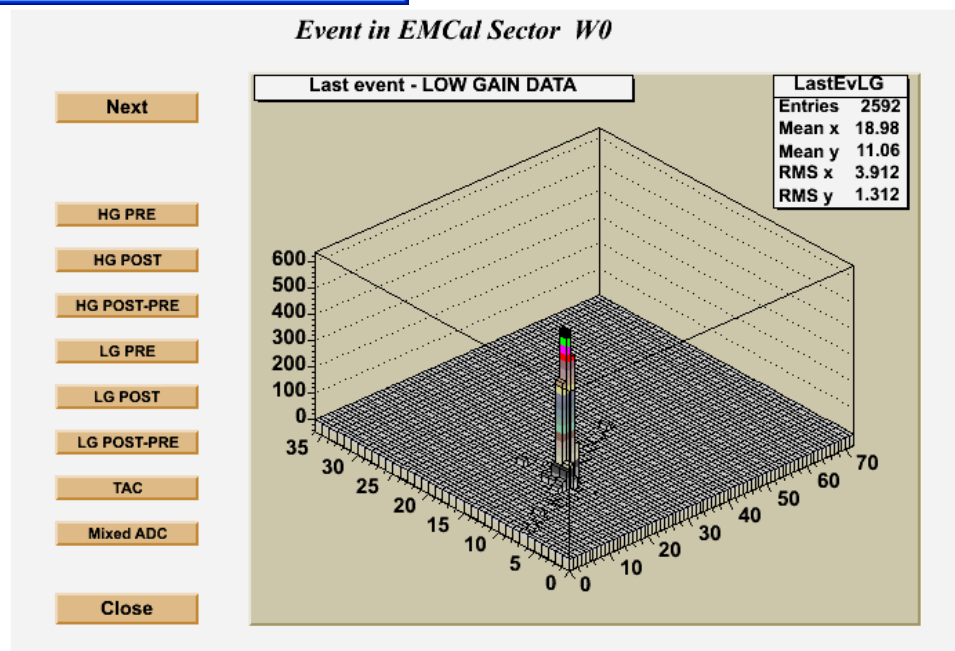
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Cosmic/W muon ratio estimated to be 1/1 for $p > 10$ GeV, but estimate is unreliable - need measurement!

Cosmic ray in EMCal looks much like high- p_T photon

- source of high- p_T photon background?



Hadron Blind Detector (HBD)

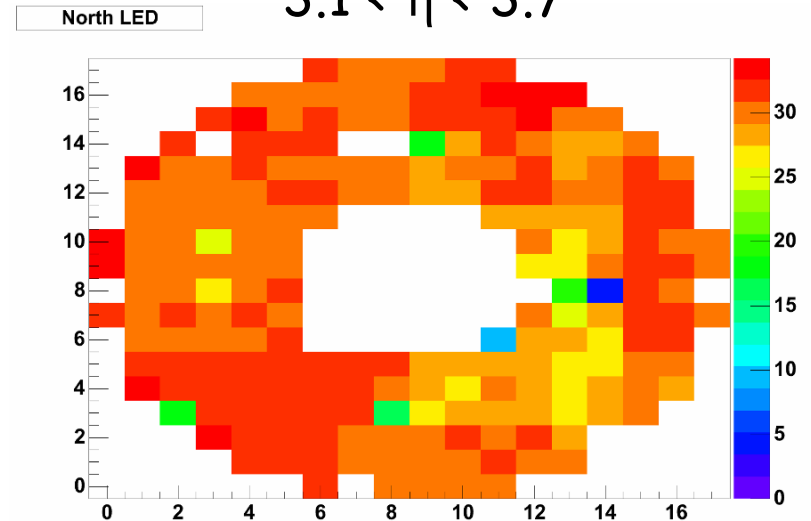


State-of-the-art detector -
challenging to commission with AuAu!



Reaction Plane Detector

MPC-North (& South)
 $3.1 < \eta < 3.7$



TOF-W

PHENIX Jan-Feb Operations Plan

- Tue 1/9 Started PHENIX watch/cosmic-ray shifts
- Mon 2/6 Turned on large cooling pump (for magnet operations)
- Wed 2/7 ATS (auto. transf. switch) test done
Installed south muon shielding collar
Magnetic sweep to prepare for magnet tests
- Thu 2/8 RHIC - start of cooldown?
PHENIX Magnet tests & fringe field measurements
- Fri 2/9 Completed fringe field measurements
Muon magnets on for cosmic ray measurement
- Thu 2/22 RHIC - beam in blue ring
- Tue 2/27 Start 5-person PHENIX shifts
- Thu 3/1 RHIC - beam in yellow ring

See also: <http://www.rhichome.bnl.gov/SchedPhys/FY2007/schedules/RhicRun7StartUp.pdf> (Feb 1st vers.)

PHENIX Goals for Run7

1. Get 1.1 nb^{-1} Au+Au collisions on tape
 - equivalent to 2.7 to 4.4 nb^{-1} delivered, depending on vertex, beam backgrounds, etc.
 - Projection for 14 week run is $\sim 1.8/\text{nb}$ (minimum) to $\sim 3.6/\text{nb}$ (maximum)
 - *So, we expect to use up \sim entire Run7 on Au+Au*
2. Achieve the maximum figure of merit for next polarized p+p run (Run8)
3. Prepare for 500 GeV polarized p+p run

We anticipate AGS polarization development studies while Au+Au collisions are underway

We await information from CA-D as to whether 200 GeV or 500 GeV p+p machine development in Run7 gets us to goals 2+3 faster/better